

INTERNATIONAL SEARCH REPORT

In ——— national Application No
PCT/GB2004/001135

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N27/414 B01L3/00 G01N27/447 G01N33/487

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N B01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/086162 A (KIM SUN-HEE ;CHO YOON-KYOUNG (KR); LIM GEUN-BAE (KR); PARK CHIN-SU) 31 October 2002 (2002-10-31)	1,10-16, 22
Y	abstract; figures 2,3,13,14 page 5, line 14 -page 13, line 11 page 15, line 22 -page 16, line 6 page 21, line 30 -page 22, line 7 ----- -/--	28,29, 38-41

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

16 June 2004

Date of mailing of the international search report

25/06/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Klein, M-O

INTERNATIONAL SEARCH REPORT

In — .nal Application No
PCT/GB2004/001135

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	BAUMANN W H ET AL: "Microelectronic sensor system for microphysiological application on living cells" SENSORS AND ACTUATORS B, ELSEVIER SEQUOIA S.A., LAUSANNE, CH, vol. 55, no. 1, 25 April 1999 (1999-04-25), pages 77-89, XP004175066 ISSN: 0925-4005 the whole document	28,29, 38-41
Y	WO 02/29912 A (SMITH PAUL ;EIDGENOEES TECH HOCHSCHULE (CH); SIRRINGHAUS HENNING ()) 11 April 2002 (2002-04-11) cited in the application the whole document	1,4,21, 27, 30-37, 42-46
Y	EP 0 398 587 A (EMI PLC THORN) 22 November 1990 (1990-11-22) column 1-4; figures 2,5-9	30-37, 42-46
X	ROSSIER J S ET AL: "ENZYME LINKED IMMUNOSORBENT ASSAY ON A MICROCHIP WITH ELECTROCHEMICAL DETECTION" LAB ON A CHIP, ROYAL SOCIETY OF CHEMISTRY, CAMBRIDGE, GB, vol. 1, no. 2, December 2001 (2001-12), pages 153-157, XP009030699 ISSN: 1473-0197	1,3,5, 13,22, 23,25,26
Y	abstract; figure 1 page 154	1,4,21, 27
X	EP 0 668 500 A (ROSSENDORF FORSCHZENT) 23 August 1995 (1995-08-23) abstract; figure 1	22,24
X	EP 0 633 468 A (ROSSENDORF FORSCHZENT) 11 January 1995 (1995-01-11) abstract; figure 2D column 1-3	1-3, 5-11, 17-20,47

INTERNATIONAL SEARCH REPORT

In International Application No
PCT/GB2004/001135

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02086162	A	31-10-2002	KR 2002082357 A	31-10-2002
			KR 2002090734 A	05-12-2002
			KR 2003048178 A	19-06-2003
			CN 1461350 T	10-12-2003
			EP 1392860 A1	03-03-2004
			WO 02086162 A1	31-10-2002
			US 2003102510 A1	05-06-2003
WO 0229912	A	11-04-2002	AU 9208401 A	15-04-2002
			CN 1475036 T	11-02-2004
			EP 1323196 A1	02-07-2003
			WO 0229912 A1	11-04-2002
EP 0398587	A	22-11-1990	AT 112652 T	15-10-1994
			DE 69013056 D1	10-11-1994
			DE 69013056 T2	11-05-1995
			EP 0398587 A2	22-11-1990
			US 5037779 A	06-08-1991
EP 0668500	A	23-08-1995	DE 4405004 A1	24-08-1995
			EP 0668500 A2	23-08-1995
EP 0633468	A	11-01-1995	DE 4318407 A1	08-12-1994
			DE 59408651 D1	30-09-1999
			EP 0633468 A2	11-01-1995